		Non
	Application No.	Applicant(s)
Nation of Allowskills	10/664,661	GENSLER, WILLIAM G.
Notice of Allowability	Examiner	Art Unit
	Walter Benson	2858
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>IDS filed 9/20/03</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-3</u> .		
3. \boxtimes The drawings filed on <u>20 September 2003</u> are accepted by	the Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No cuments have been received in this	national stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
 CORRECTED DRAWINGS (as "replacement sheets") muse (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review(PTO-	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin he header according to 37 CFR 1.121(ngs in the front (not the back) of d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E Nation of Information	latant Application (DTO 152)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		atent Application (PTO-152) (PTO-413)
	Paper No./Mail Dat	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/20/03 	8), 7. ⊠ Examiner's Amendr	nenvcomment
4. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	ent of Reasons for Allowance
of Biological Material	9.	
Walter Bonson 571-272-2227 U.S. Patent and Trademark Office		
PTOL-37 (Rev. 1-04) Notice of Allowability Part of Paper No./Mail Date 20041215		

Application/Control Number: 10/664,661 Page 2

Art Unit: 2858

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with

Mr. William G. Gensler, Inventor on 12/15/04.

3. Claims filed 9/20/03 are amended as follows:

1. A method for measuring the water content within a plant comprising the steps of:

placing a sensor surface electrode in any gravitation orientation implanted within said

plant,

placing a second electrode in the a root environment,

measuring the area of said sensor surface electrode implanted within said plant,

measuring the electrical capacitance between a first wire connected to said sensor surface

electrode and a second wire connected to said second electrode in said root environment,

forming the a ratio of said electrical capacitance to said area of said electrode surface for

determining water content.

Application/Control Number: 10/664,661

Art Unit: 2858

2. Apparatus for measuring the water content within a plant comprising:

sensor surface electrode means for making contact implanting within said plant, second electrode means for making contact with the a root environment,

first wire means connected to said sensor surface electrode, second wire means connected to said second electrode means,

means coupled to said first wire means and said second wire means for measuring the electrical capacitance generated therebetween by said plant -,

area means for measuring area of said sensor surface electrode implanted within said plant -,

means for determining water content by forming a ratio of said electrical capacitance to said area of said electrode surface.

3. Apparatus as recited in claim 2 further including a plurality of sensor surface electrode means and means interposed between each of said sensor surface means electrodes and said measuring means for selectively connecting each one of the said sensor surface means electrodes to said measuring means.

Allowable Subject Matter

4. Claims 1-3 are allowed.

The prior art of record fails to teach in combination as claimed a system for measuring water content within a plant including a sensor electrode for implanting within the plant. A second

Application/Control Number: 10/664,661

Art Unit: 2858

electrode that makes contact with a root environment. Measuring the area of the sensor electrode

Page 4

implanted within the plant. Forming a ratio of the electrical capacitance to the area of the

electrode surface for determining water content.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Walter Benson whose telephone number is (571) 272-2227. The

examiner can normally be reached on Mon to Fri 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, N. Le can be reached on (571) 272-2233. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Walter Benson 1/23

Patent Examiner

December 15, 2004

Technology Center 2800